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 50 55 60  
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<212> DNA

<213> Homo Sapien

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Tyr	Phe	Gly	Ile	Val 110	Ser	Val	Arg	Ile	Leu 115	Val	His	Glu	Trp	Pro 120
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Val	Val	Glu	Ile	Asp 140	Gly	Lys	Gln	Val	Gln 145	Gln	Lys	Asp	Val	Thr 150
Glu	Ile	Asp	Ile	Leu 155	Val	Lys	Asn	Arg	Gly 160	Val	Leu	Arg	His	Ser 165
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Arg	Asp	Ser	Asp	Ile 185	Leu	Phe	Thr	Leu	Pro 190	Asn	Leu	Ser	Lys	Lys 195
Glu	Ser	Val	Ser	Ser 200	Leu	Gln	Thr	Thr	Ser 205	Gln	Tyr	Leu	Ile	Arg 210
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<213> Homo Sapien

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<213> Homo Sapien

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Thr	Glu	Thr	Arg	Ser 305	Asp	Phe	Tyr	Asp	Ile 310	Val	Leu	Val	Ala	Thr 315
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Leu Arg Pro Gly Thr Asn Tyr Asn Val	Ser Leu Arg Ala Leu Ser	
560	565	570
Ser Glu Leu Pro Val Val Ile Ser Leu	Thr Thr Gln Ile Thr Glu	
575	580	585
Pro Pro Leu Pro Glu Val Glu Phe Phe	Thr Val His Arg Gly Pro	
590	595	600
Leu Pro Arg Leu Arg Leu Arg Lys Ala	Lys Glu Lys Asn Gly Pro	
605	610	615
Ile Ser Ser Tyr Gln Val Leu Val Leu	Pro Leu Ala Leu Gln Ser	
620	625	630
Thr Phe Ser Cys Asp Ser Glu Gly Ala	Ser Ser Phe Phe Ser Asn	
635	640	645
Ala Ser Asp Ala Asp Gly Tyr Val Ala	Ala Glu Leu Leu Ala Lys	
650	655	660
Asp Val Pro Asp Asp Ala Met Glu Ile	Pro Ile Gly Asp Arg Leu	
665	670	675
Tyr Tyr Gly Glu Tyr Tyr Asn Ala Pro	Leu Lys Arg Gly Ser Asp	
680	685	690
Tyr Cys Ile Ile Leu Arg Ile Thr Ser	Glu Trp Asn Lys Val Arg	
695	700	705
Arg His Ser Cys Ala Val Trp Ala Gln	Val Lys Asp Ser Ser Leu	
710	715	720
Met Leu Leu Gln Met Ala Gly Val Gly	Leu Gly Ser Leu Ala Val	
725	730	735
Val Ile Ile Leu Thr Phe Leu Ser Phe	Ser Ala Val	
740	745	

<210> 59  
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 <210> 60  
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<220>

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<400> 60

cctcttgaca gacatagcga gccac 25

<210> 61

<211> 43

<212> DNA

<213> Artificial Sequence

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<223> Synthetic oligonucleotide probe

<400> 61

cactcttgte tgtgggaacc acacatcttg ccacaactgt ggc 43

<210> 62

<211> 2015

<212> DNA

<213> Homo Sapien

<400> 62

ggaaaaggta cccgcgagag acagccagca gttctgtgga gcagcgggtgg 50  
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 ctgctgggag gttgggggtct ctgggagctc tgcaggcccc agcaccgcga 150  
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 ggggagccaa gagaatttcc cctgcaagag agaccaggag tttcacaaaa 350  
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 cgccagtggc agccccgagg gagctggaat gaccacagtt cagaccatca 450  
 caggcagtga tcccaggaa gccatctttg acaccctttg caccgatgac 500  
 agctctgaag aggcaaagac actcacaatg gacatattga cattgggtca 550  
 cacctccaca gaagctaagg gcctgtcctc agagagcagt gcctcttccg 600  
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 cagcgccctt tccgacggcc cccatccagt catcaccccg tcatgggtccc 750  
 cgggatctga tgtaactctc ctgctgaag ccctgggtgac tgtcacaaac 800  
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55







[illegible]

<210> 66  
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 <211> 47  
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 <400> 67  
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 <210> 68  
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 <400> 68  
 gtcccagggt atagtaagaa ttgg 24  
  
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 gtgttgcggt cagtcccatg 20  
  
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 <400> 70  
 gctgtctccc atttccatgc 20  
  
 <210> 71  
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 <212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 71

cgactacat gtcttcataa tgctc 24

<210> 72

<211> 2849

<212> DNA

<213> Homo Sapien

<400> 72

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 gggggggacc tgtggctgct cgtaccgccc cccaccctcc tcttctgcac 150  
 tgccgtcttc cggaagacct tttcccttgc tctgttttct tcaccgagtc 200  
 tgtgcatcgc cccggacctg gccgggagga ggcttggccg gcgggagatg 250  
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 gaagatgggc tcccgtggac agggactctt gctggcgtag tgccgtctcc 350  
 ttgcctttgc ctctggcctg gtctgagtc gtgtgcccc a tgtccagggg 400  
 gaacagcagg agtgggaggg gactgaggag ctgccgtcgc ctccggacca 450  
 tgccgagagg gctgaagaac aacatgaaa atacaggccc agtcaggacc 500  
 aggggctccc tgcttcccgg tgcttgccgt gctgtgaccc cggtagctcc 550  
 atgtaccagg cgaccgccgt gcccagatc aacatcacta tcttgaaagg 600  
 ggagaagggg gaccgcccag atcgaggcct ccaagggaat tatggcaaaa 650  
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 tccatggggg cccctgggga gcgggtgcaag agccactacg ccgccttttc 750  
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cccagatccc gcagcctctg gagagagctg acggcagatg aaatcaccag 1350  
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ttttgactaa	tcttgcttcc	ctctctgggc	ctggctgccg	ggatctgggg	2700
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gagttgctgt	gggcgtgccc	ggaagcagag	cgccacactc	gctgcttaag	2800
ctccccagc	tctttccaga	aaacattaaa	ctcagaattg	tgttttcaa	2849

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<210> 73
<211> 281
<212> PRT
<213> Homo Sapien
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<400>	73													
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Leu	Ala	Phe	Ala	Ser	Gly	Leu	Val	Leu	Ser	Arg	Val	Pro	His	Val
				20					25					30
Gln	Gly	Glu	Gln	Gln	Glu	Trp	Glu	Gly	Thr	Glu	Glu	Leu	Pro	Ser
				35					40					45
Pro	Pro	Asp	His	Ala	Glu	Arg	Ala	Glu	Glu	Gln	His	Glu	Lys	Tyr
				50					55					60
Arg	Pro	Ser	Gln	Asp	Gln	Gly	Leu	Pro	Ala	Ser	Arg	Cys	Leu	Arg
				65					70					75
Cys	Cys	Asp	Pro	Gly	Thr	Ser	Met	Tyr	Pro	Ala	Thr	Ala	Val	Pro
				80					85					90
Gln	Ile	Asn	Ile	Thr	Ile	Leu	Lys	Gly	Glu	Lys	Gly	Asp	Arg	Gly
				95					100					105
Asp	Arg	Gly	Leu	Gln	Gly	Lys	Tyr	Gly	Lys	Thr	Gly	Ser	Ala	Gly
				110					115					120
Ala	Arg	Gly	His	Thr	Gly	Pro	Lys	Gly	Gln	Lys	Gly	Ser	Met	Gly
				125					130					135
Ala	Pro	Gly	Glu	Arg	Cys	Lys	Ser	His	Tyr	Ala	Ala	Phe	Ser	Val
				140					145					150
Gly	Arg	Lys	Lys	Pro	Met	His	Ser	Asn	His	Tyr	Tyr	Gln	Thr	Val
				155					160					165
Ile	Phe	Asp	Thr	Glu	Phe	Val	Asn	Leu	Tyr	Asp	His	Phe	Asn	Met
				170					175					180
Phe	Thr	Gly	Lys	Phe	Tyr	Cys	Tyr	Val	Pro	Gly	Leu	Tyr	Phe	Phe
				185					190					195
Ser	Leu	Asn	Val	His	Thr	Trp	Asn	Gln	Lys	Glu	Thr	Tyr	Leu	His

	200		205		210
Ile Met Lys Asn Glu Glu Glu Val Val		Ile Leu Phe Ala Gln Val			
215		220		225	
Gly Asp Arg Ser Ile Met Gln Ser Gln		Ser Leu Met Leu Glu Leu			
230		235		240	
Arg Glu Gln Asp Gln Val Trp Val Arg		Leu Tyr Lys Gly Glu Arg			
245		250		255	
Glu Asn Ala Ile Phe Ser Glu Glu Leu		Asp Thr Tyr Ile Thr Phe			
260		265		270	
Ser Gly Tyr Leu Val Lys His Ala Thr		Glu Pro			
275		280			

<210> 74  
 <211> 24  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic oligonucleotide probe

<400> 74  
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<210> 75  
 <211> 24  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic oligonucleotide probe

<400> 75  
 ctgaagaagt agaggccggg cacg 24

<210> 76  
 <211> 45  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic oligonucleotide probe

<400> 76  
 cccggtgctt gcgctgctgt gaccccggtta cctccatgta cccgg 45

<210> 77  
 <211> 1042  
 <212> DNA  
 <213> Homo Sapien

<400> 77  
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gcatataaag aagccctgtg gccttgctgg ttttaccatc cagaccagag 100  
tcaggccaca gacggacatg gctgctcaag gctgggtccat gctcctgctg 150  
gctgtcctta acctagcat ctctgtccgt ccctgtgaca ctcaagagct 200  
acgatgtctg tgtattcagg aacactctga attcattcct ctcaaactca 250  
ttaaaaaatat aatgggtgata ttcgagacca tttactgcaa cagaaaggaa 300  
gtgatagcag tcccaaaaaa tgggagtatg atttgtttgg atcctgatgc 350  
tccatgggtg aaggctactg ttggcccaat tactaacagg ttcctacctg 400  
aggacctcaa acaaaaggaa tttccaccgg caatgaagct tctgtatagt 450  
gttgagcatg aaaagcctct atatctttca tttgggagac ctgagaacaa 500  
gagaatattt ccctttccaa ttcgggagac ctctagacac tttgctgatt 550  
tagctcacia cagtgatagg aattttctac gggactccag tgaagtcagc 600  
ttgacaggca gtgatgccta aaagccactc atgaggcaaa gagtttcaag 650  
gaagctctcc tcctggagtt ttggcggttct cattcttata ctctattccc 700  
gcgttagtct ggtgatgga tctatgagct ctcttttaat attttattat 750  
aaatgtttta tttacttaac ttcctagtga atgttcacag gtgactgctc 800  
ccccatcccc atttcttgat attacatata atggcatcat atacccttt 850  
attgactgac aaactactca gattgcttaa cattttgtgc ttcaaagtct 900  
tatccactc cactatgggc tgttacagag tgcactctcg tgtagagcaa 950  
ggctccttgt cttcagtgcc ccagggtgaa atacttcttt gaaaaatttt 1000  
cattcatcag aaaatctgaa ataaaaatat gtcttaattg ag 1042

<210> 78  
<211> 167  
<212> PRT  
<213> Homo Sapien

<400> 78  
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20 25 30  
Leu Cys Ile Gln Glu His Ser Glu Phe Ile Pro Leu Lys Leu Ile  
35 40 45  
Lys Asn Ile Met Val Ile Phe Glu Thr Ile Tyr Cys Asn Arg Lys  
50 55 60



Glu	Val	Ile	Ala	Val	Pro	Lys	Asn	Gly	Ser	Met	Ile	Cys	Leu	Asp
				65					70					75
Pro	Asp	Ala	Pro	Trp	Val	Lys	Ala	Thr	Val	Gly	Pro	Ile	Thr	Asn
				80					85					90
Arg	Phe	Leu	Pro	Glu	Asp	Leu	Lys	Gln	Lys	Glu	Phe	Pro	Pro	Ala
				95					100					105
Met	Lys	Leu	Leu	Tyr	Ser	Val	Glu	His	Glu	Lys	Pro	Leu	Tyr	Leu
				110					115					120
Ser	Phe	Gly	Arg	Pro	Glu	Asn	Lys	Arg	Ile	Phe	Pro	Phe	Pro	Ile
				125					130					135
Arg	Glu	Thr	Ser	Arg	His	Phe	Ala	Asp	Leu	Ala	His	Asn	Ser	Asp
				140					145					150
Arg	Asn	Phe	Leu	Arg	Asp	Ser	Ser	Glu	Val	Ser	Leu	Thr	Gly	Ser
				155					160					165

Asp Ala

<210> 79  
 <211> 798  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> unsure  
 <222> 794  
 <223> unknown base

<400> 79  
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 tttggcatcc ccaggaccca aggcagtgat ggaggggctc aggactgttg 100  
 cctcaagtac agccaaagga agattcccg ccaagggtgtc cgcagctacc 150  
 ggaagcagga accaagctta ggctgctcca tcccagctat cctgttcttg 200  
 ccccgcaagc gotctcaggc agagctatgt gcagacccaa aggagctctg 250  
 ggtgcagcag ctgatgcagc atctggacaa gacaccatcc ccacagaaac 300  
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 ggaaagggct ccaaaggctg caagaggact gagcggtcac agaccctaa 400  
 aggccatag ccagtgagc agcctggagc cctggagacc ccaccagcct 450  
 caccagcgct tgaagcctga acccaagatg caagaaggag gctatgctca 500  
 ggggccctgg agcagccacc ccatgctggc cttgccacac tctttctcct 550  
 gctttaacca ccccatctgc attcccagct ctaccctgca tggctgagct 600

gcccacagca ggccagggtcc agagagaccg aggagggaga gtctcccagg 650  
gagcatgaga ggaggcagca ggactgtccc cttgaaggag aatcatcagg 700  
accctggacc tgatacggct cccacgtaca ccccacctct tccttgtaaa 750  
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<210> 80
<211> 134
<212> PRT
<213> Homo Sapien
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Phe	Gly	Ile	Pro	Arg	Thr	Gln	Gly	Ser	Asp	Gly	Gly	Ala	Gln	Asp	
				20					25					30	
Cys	Cys	Leu	Lys	Tyr	Ser	Gln	Arg	Lys	Ile	Pro	Ala	Lys	Val	Val	
				35					40					45	
Arg	Ser	Tyr	Arg	Lys	Gln	Glu	Pro	Ser	Leu	Gly	Cys	Ser	Ile	Pro	
				50					55					60	
Ala	Ile	Leu	Phe	Leu	Pro	Arg	Lys	Arg	Ser	Gln	Ala	Glu	Leu	Cys	
				65					70					75	
Ala	Asp	Pro	Lys	Glu	Leu	Trp	Val	Gln	Gln	Leu	Met	Gln	His	Leu	
				80					85					90	
Asp	Lys	Thr	Pro	Ser	Pro	Gln	Lys	Pro	Ala	Gln	Gly	Cys	Arg	Lys	
				95					100					105	
Asp	Arg	Gly	Ala	Ser	Lys	Thr	Gly	Lys	Lys	Gly	Lys	Gly	Ser	Lys	
				110					115					120	
Gly	Cys	Lys	Arg	Thr	Glu	Arg	Ser	Gln	Thr	Pro	Lys	Gly	Pro		
				125					130						

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<210> 81
<211> 20
<212> DNA
<213> Artificial Sequence
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<220>  
<223> Synthetic oligonucleotide probe

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<400> 81
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<210> 82
<211> 19
<212> DNA
<213> Artificial Sequence
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<220>

<223> Synthetic oligonucleotide probe

<400> 82  
gacccctaaa gggccatag 19

<210> 83  
<211> 924  
<212> DNA  
<213> Homo Sapien

<400> 83  
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cggctctcagg agatgtctga tttccacaga catgcaccat atagaagaga 150  
gtttccaaga aatcaaaaga gccatccaag ctaaggacac cttcccaa 200  
gtcactatcc tgtccacatt ggagactctg cagatcatta agcccttaga 250  
tgtgtgctgc gtgaccaaga acctcctggc gttctacgtg gacaggggtgt 300  
tcaaggatca tcaggagcca aacccccaaa tcttgagaaa aatcagcagc 350  
attgccaaact ctttctctta catgcagaaa actctgcggc aatgtcagga 400  
acagaggcag tgtcactgca ggcaggaagc caccaatgcc accagagtca 450  
tccatgacaa ctatgatcag ctggagggtcc acgctgctgc cattaaatcc 500  
ctgggagagc tcgacgtctt tctagcctgg attaataaga atcatgaagt 550  
aatgtttctca gcttgatgac aaggaacctg tatagtgatc cagggatgaa 600  
caccctctgt gcggtttact gtgggagaca gccaccttg aaggggaagg 650  
agatggggaa ggcccttgcc agctgaaagt cccactggct ggcctcaggc 700  
tgtcttattc cgcttgaaaa taggcaaaaa gtctactgtg gtatttgtaa 750  
taaactctat ctgctgaaag ggctgcagg ccctcctggg agtaaagggc 800  
tgccttccca tctaatttat tgtaaagtca tatagtccat gtctgtgatg 850  
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ataaattcca tattttacct atga 924

<210> 84  
<211> 177  
<212> PRT  
<213> Homo Sapien

<400> 84  
Met Lys Leu Gln Cys Val Ser Leu Trp Leu Leu Gly Thr Ile Leu  
1 5 10 15

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Ser	Thr	Asp	Met	His	His	Ile	Glu	Glu	Ser	Phe	Gln	Glu	Ile	Lys	35	40	45
Arg	Ala	Ile	Gln	Ala	Lys	Asp	Thr	Phe	Pro	Asn	Val	Thr	Ile	Leu	50	55	60
Ser	Thr	Leu	Glu	Thr	Leu	Gln	Ile	Ile	Lys	Pro	Leu	Asp	Val	Cys	65	70	75
Cys	Val	Thr	Lys	Asn	Leu	Leu	Ala	Phe	Tyr	Val	Asp	Arg	Val	Phe	80	85	90
Lys	Asp	His	Gln	Glu	Pro	Asn	Pro	Lys	Ile	Leu	Arg	Lys	Ile	Ser	95	100	105
Ser	Ile	Ala	Asn	Ser	Phe	Leu	Tyr	Met	Gln	Lys	Thr	Leu	Arg	Gln	110	115	120
Cys	Gln	Glu	Gln	Arg	Gln	Cys	His	Cys	Arg	Gln	Glu	Ala	Thr	Asn	125	130	135
Ala	Thr	Arg	Val	Ile	His	Asp	Asn	Tyr	Asp	Gln	Leu	Glu	Val	His	140	145	150
Ala	Ala	Ala	Ile	Lys	Ser	Leu	Gly	Glu	Leu	Asp	Val	Phe	Leu	Ala	155	160	165
Trp	Ile	Asn	Lys	Asn	His	Glu	Val	Met	Phe	Ser	Ala				170	175	

<210> 85  
 <211> 2137  
 <212> DNA  
 <213> Homo Sapien

<400> 85  
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tggccggcct ctggctggcc gtggccgggc gccccctcgc cttctcggac 550  
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71





<212> PRT

<213> Homo Sapien

<400> 91

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Val	His	Ser	Ser	Glu	Pro	Glu	Val	Arg	Ile	Pro	Glu	Asn	Asn	Pro	35	40	45	
Val	Lys	Leu	Ser	Cys	Ala	Tyr	Ser	Gly	Phe	Ser	Ser	Pro	Arg	Val	50	55	60	
Glu	Trp	Lys	Phe	Asp	Gln	Gly	Asp	Thr	Thr	Arg	Leu	Val	Cys	Tyr	65	70	75	
Asn	Asn	Lys	Ile	Thr	Ala	Ser	Tyr	Glu	Asp	Arg	Val	Thr	Phe	Leu	80	85	90	
Pro	Thr	Gly	Ile	Thr	Phe	Lys	Ser	Val	Thr	Arg	Glu	Asp	Thr	Gly	95	100	105	
Thr	Tyr	Thr	Cys	Met	Val	Ser	Glu	Glu	Gly	Gly	Asn	Ser	Tyr	Gly	110	115	120	
Glu	Val	Lys	Val	Lys	Leu	Ile	Val	Leu	Val	Pro	Pro	Ser	Lys	Pro	125	130	135	
Thr	Val	Asn	Ile	Pro	Ser	Ser	Ala	Thr	Ile	Gly	Asn	Arg	Ala	Val	140	145	150	
Leu	Thr	Cys	Ser	Glu	Gln	Asp	Gly	Ser	Pro	Pro	Ser	Glu	Tyr	Thr	155	160	165	
Trp	Phe	Lys	Asp	Gly	Ile	Val	Met	Pro	Thr	Asn	Pro	Lys	Ser	Thr	170	175	180	
Arg	Ala	Phe	Ser	Asn	Ser	Ser	Tyr	Val	Leu	Asn	Pro	Thr	Thr	Gly	185	190	195	
Glu	Leu	Val	Phe	Asp	Pro	Leu	Ser	Ala	Ser	Asp	Thr	Gly	Glu	Tyr	200	205	210	
Ser	Cys	Glu	Ala	Arg	Asn	Gly	Tyr	Gly	Thr	Pro	Met	Thr	Ser	Asn	215	220	225	
Ala	Val	Arg	Met	Glu	Ala	Val	Glu	Arg	Asn	Val	Gly	Val	Ile	Val	230	235	240	
Ala	Ala	Val	Leu	Val	Thr	Leu	Ile	Leu	Leu	Gly	Ile	Leu	Val	Phe	245	250	255	
Gly	Ile	Trp	Phe	Ala	Tyr	Ser	Arg	Gly	His	Phe	Asp	Arg	Thr	Lys	260	265	270	

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Arg Ser Glu Gly Glu Phe Lys Gln Thr Ser Ser Phe Leu Val  
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<210> 92  
 <211> 24  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic oligonucleotide probe

<400> 92  
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<210> 93  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic oligonucleotide probe

<400> 93  
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<210> 94  
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<400> 94  
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<210> 96  
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 <212> DNA  
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<220>  
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tgtaggaagg gacttttgtt tgtttgtttg tttcaggaaa aaagaaaggg 1100  
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<210> 99
<211> 205
<212> PRT
<213> Homo Sapien
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				20					25					30
Ala	Met	Thr	Asp	Gln	Leu	Ser	Arg	Arg	Gln	Ile	Arg	Glu	Tyr	Gln
				35					40					45
Leu	Tyr	Ser	Arg	Thr	Ser	Gly	Lys	His	Val	Gln	Val	Thr	Gly	Arg
				50					55					60
Arg	Ile	Ser	Ala	Thr	Ala	Glu	Asp	Gly	Asn	Lys	Phe	Ala	Lys	Leu
				65					70					75
Ile	Val	Glu	Thr	Asp	Thr	Phe	Gly	Ser	Arg	Val	Arg	Ile	Lys	Gly
				80					85					90
Ala	Glu	Ser	Glu	Lys	Tyr	Ile	Cys	Met	Asn	Lys	Arg	Gly	Lys	Leu
				95					100					105
Ile	Gly	Lys	Pro	Ser	Gly	Lys	Ser	Lys	Asp	Cys	Val	Phe	Thr	Glu
				110					115					120
Ile	Val	Leu	Glu	Asn	Asn	Tyr	Thr	Ala	Phe	Gln	Asn	Ala	Arg	His
				125					130					135
Glu	Gly	Trp	Phe	Met	Ala	Phe	Thr	Arg	Gln	Gly	Arg	Pro	Arg	Gln
				140					145					150
Ala	Ser	Arg	Ser	Arg	Gln	Asn	Gln	Arg	Glu	Ala	His	Phe	Ile	Lys
				155					160					165
Arg	Leu	Tyr	Gln	Gly	Gln	Leu	Pro	Phe	Pro	Asn	His	Ala	Glu	Lys
				170					175					180
Gln	Lys	Gln	Phe	Glu	Phe	Val	Gly	Ser	Ala	Pro	Thr	Arg	Arg	Thr
				185					190					195
Lys	Arg	Thr	Arg	Arg	Pro	Gln	Pro	Leu	Thr					
				200					205					

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<210> 100
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 100
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<210> 101
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 101
ccggtgacct gcacgtgctt gccca 24

<210> 102
<211> 41
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<220>
<221> unsure
<222> 21
<223> unknown base

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<210> 103
<211> 1679
<212> DNA
<213> Homo Sapien

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aaaaatgcac aattctatct cttgggcaat cttcacgggg ctggctgctc 200
tgtgtctctt ccaaggagtg cccgtgcgca gcggagatgc caccttcccc 250
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gtgcactatt gacaaccggg tcaccgggtt ggctgggcta aaccgcagca 350

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ccatcctcta tgctgggaat gacaagtggg gcctggatcc tcgctgggtc 400  
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tgtgtatgac gagggccctt acacctgctc ggtgcagaca gacaaccacc 500  
caaagacctc taggggtccac ctcattgtgc aagtatctcc caaaattgta 550  
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aattcaatca gtccatagag acgaacagaa tgagaccttc cggcccaagc 1600  
gtggcgctgc gggcactttg gtagactgtg ccaccacggc gtgtgttgtg 1650  
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<210> 104  
<211> 344  
<212> PRT  
<213> Homo Sapien

[illegible]

79

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 Val Ser Glu Val Ser Asn Gly Thr Ser Arg Arg Ala Gly Cys Val  
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 <211> 440  
 <212> PRT  
 <213> Homo Sapien

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 Thr Gly Thr Asn Ile Gly Glu Ala Leu Gly His Gly Leu Gly Asp  
 35 40 45  
 Ala Leu Ser Glu Gly Val Gly Lys Ala Ile Gly Lys Glu Ala Gly  
 50 55 60  
 Gly Ala Ala Gly Ser Lys Val Ser Glu Ala Leu Gly Gln Gly Thr  
 65 70 75  
 Arg Glu Ala Val Gly Thr Gly Val Arg Gln Val Pro Gly Phe Gly  
 80 85 90  
 Ala Ala Asp Ala Leu Gly Asn Arg Val Gly Glu Ala Ala His Ala  
 95 100 105  
 Leu Gly Asn Thr Gly His Glu Ile Gly Arg Gln Ala Glu Asp Val

Ile Arg His Gly	Ala Asp Ala Val Arg	Gly Ser Trp Gln Gly	Val
125		130	135
Pro Gly His Ser	Gly Ala Trp Glu Thr	Ser Gly Gly His Gly	Ile
140		145	150
Phe Gly Ser Gln	Gly Gly Leu Gly Gly	Gln Gly Gln Gly Asn	Pro
155		160	165
Gly Gly Leu Gly	Thr Pro Trp Val His	Gly Tyr Pro Gly Asn	Ser
170		175	180
Ala Gly Ser Phe	Gly Met Asn Pro Gln	Gly Ala Pro Trp Gly	Gln
185		190	195
Gly Gly Asn Gly	Gly Pro Pro Asn Phe	Gly Thr Asn Thr Gln	Gly
200		205	210
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Ser Ser Asn Ser	Gly Gly Gly Ser Gly	Ser Gln Ser Gly Ser	Ser
245		250	255
Gly Ser Gly Ser	Asn Gly Asp Asn Asn	Asn Gly Ser Ser Ser	Gly
260		265	270
Gly Ser Ser Ser	Gly Ser Ser Ser Gly	Ser Ser Ser Gly Gly	Ser
275		280	285
Ser Gly Gly Ser	Ser Gly Gly Ser Ser	Gly Asn Ser Gly Gly	Ser
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Arg Gly Asp Ser	Gly Ser Glu Ser Ser	Trp Gly Ser Ser Thr	Gly
305		310	315
Ser Ser Ser Gly	Asn His Gly Gly Ser	Gly Gly Gly Asn Gly	His
320		325	330
Lys Pro Gly Cys	Glu Lys Pro Gly Asn	Glu Ala Arg Gly Ser	Gly
335		340	345
Glu Ser Gly Ile	Gln Gly Phe Arg Gly	Gln Gly Val Ser Ser	Asn
350		355	360
Met Arg Glu Ile	Ser Lys Glu Gly Asn	Arg Leu Leu Gly Gly	Ser
365		370	375
Gly Asp Asn Tyr	Arg Gly Gln Gly Ser	Ser Trp Gly Ser Gly	Gly
380		385	390
Gly Asp Ala Val	Gly Gly Val Asn Thr	Val Asn Ser Glu Thr	Ser
395		400	405





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<210> 110
<211> 390
<212> PRT
<213> Homo Sapien
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				20					25					30	
Leu	Gln	Leu	His	Leu	Pro	Ala	Asn	Arg	Leu	Gln	Ala	Val	Glu	Gly	
				35					40					45	
Gly	Glu	Val	Val	Leu	Pro	Ala	Trp	Tyr	Thr	Leu	His	Gly	Glu	Val	
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Ser	Ser	Ser	Gln	Pro	Trp	Glu	Val	Pro	Phe	Val	Met	Trp	Phe	Phe	
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Lys	Gln	Lys	Glu	Lys	Glu	Asp	Gln	Val	Leu	Ser	Tyr	Ile	Asn	Gly	
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Val	Thr	Thr	Ser	Lys	Pro	Gly	Val	Ser	Leu	Val	Tyr	Ser	Met	Pro	
				95					100					105	
Ser	Arg	Asn	Leu	Ser	Leu	Arg	Leu	Glu	Gly	Leu	Gln	Glu	Lys	Asp	
				110					115					120	
Ser	Gly	Pro	Tyr	Ser	Cys	Ser	Val	Asn	Val	Gln	Asp	Lys	Gln	Gly	
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Lys	Ser	Arg	Gly	His	Ser	Ile	Lys	Thr	Leu	Glu	Leu	Asn	Val	Leu	
				140					145					150	
Val	Pro	Pro	Ala	Pro	Pro	Ser	Cys	Arg	Leu	Gln	Gly	Val	Pro	His	
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Val	Gly	Ala	Asn	Val	Thr	Leu	Ser	Cys	Gln	Ser	Pro	Arg	Ser	Lys	
				170					175					180	

Pro	Ala	Val	Gln	Tyr	Gln	Trp	Asp	Arg	Gln	Leu	Pro	Ser	Phe	Gln	
				185					190					195	
Thr	Phe	Phe	Ala	Pro	Ala	Leu	Asp	Val	Ile	Arg	Gly	Ser	Leu	Ser	
				200					205					210	
Leu	Thr	Asn	Leu	Ser	Ser	Ser	Met	Ala	Gly	Val	Tyr	Val	Cys	Lys	
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Ala	His	Asn	Glu	Val	Gly	Thr	Ala	Gln	Cys	Asn	Val	Thr	Leu	Glu	
				230					235					240	
Val	Ser	Thr	Gly	Pro	Gly	Ala	Ala	Val	Val	Ala	Gly	Ala	Val	Val	
				245					250					255	
Gly	Thr	Leu	Val	Gly	Leu	Gly	Leu	Leu	Ala	Gly	Leu	Val	Leu	Leu	
				260					265					270	
Tyr	His	Arg	Arg	Gly	Lys	Ala	Leu	Glu	Glu	Pro	Ala	Asn	Asp	Ile	
				275					280					285	
Lys	Glu	Asp	Ala	Ile	Ala	Pro	Arg	Thr	Leu	Pro	Trp	Pro	Lys	Ser	
				290					295					300	
Ser	Asp	Thr	Ile	Ser	Lys	Asn	Gly	Thr	Leu	Ser	Ser	Val	Thr	Ser	
				305					310					315	
Ala	Arg	Ala	Leu	Arg	Pro	Pro	His	Gly	Pro	Pro	Arg	Pro	Gly	Ala	
				320					325					330	
Leu	Thr	Pro	Thr	Pro	Ser	Leu	Ser	Ser	Gln	Ala	Leu	Pro	Ser	Pro	
				335					340					345	
Arg	Leu	Pro	Thr	Thr	Asp	Gly	Ala	His	Pro	Gln	Pro	Ile	Ser	Pro	
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Ile	Pro	Gly	Gly	Val	Ser	Ser	Ser	Gly	Leu	Ser	Arg	Met	Gly	Ala	
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Val	Pro	Val	Met	Val	Pro	Ala	Gln	Ser	Gln	Ala	Gly	Ser	Leu	Val	
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<220>  
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 gagacagcag ggagattatt ttaccatacg ccctcaggac gttccctcta 150  
 gctggagttc tggacttcaa cagaacccca tccagtcatt ttgattttgc 200  
 tgtttatttt ttttttcttt ttctttttcc caccacattg tattttattt 250  
 ccgtacttca gaaatgggcc tacagaccac aaagtggccc agccatgggg 300  
 cttttttcct gaagtcttgg cttatcattt ccctggggct ctactcacag 350  
 gtgtccaaac tcctggcctg ccctagtgtg tgccgctgcg acaggaactt 400  
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 gagcagacga cgtcccacag catgggctcc ccctttctgc tggcgggctt 1900  
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Arg Leu Tyr Leu	Gln Asp Asn Gln Ile	Asn His Ile Pro Leu	Thr
	260	265	270
Ala Phe Ser Asn	Leu Arg Lys Leu Glu	Arg Leu Asp Ile Ser	Asn
	275	280	285
Asn Gln Leu Arg	Met Leu Thr Gln Gly	Val Phe Asp Asn Leu	Ser
	290	295	300
Asn Leu Lys Gln	Leu Thr Ala Arg Asn	Asn Pro Trp Phe Cys	Asp
	305	310	315
Cys Ser Ile Lys	Trp Val Thr Glu Trp	Leu Lys Tyr Ile Pro	Ser
	320	325	330
Ser Leu Asn Val	Arg Gly Phe Met Cys	Gln Gly Pro Glu Gln	Val
	335	340	345
Arg Gly Met Ala	Val Arg Glu Leu Asn	Met Asn Leu Leu Ser	Cys
	350	355	360
Pro Thr Thr Thr	Pro Gly Leu Pro Leu	Phe Thr Pro Ala Pro	Ser
	365	370	375
Thr Ala Ser Pro	Thr Thr Gln Pro Pro	Thr Leu Ser Ile Pro	Asn
	380	385	390
Pro Ser Arg Ser	Tyr Thr Pro Pro Thr	Pro Thr Thr Ser Lys	Leu
	395	400	405
Pro Thr Ile Pro	Asp Trp Asp Gly Arg	Glu Arg Val Thr Pro	Pro
	410	415	420
Ile Ser Glu Arg	Ile Gln Leu Ser Ile	His Phe Val Asn Asp	Thr
	425	430	435
Ser Ile Gln Val	Ser Trp Leu Ser Leu	Phe Thr Val Met Ala	Tyr
	440	445	450
Lys Leu Thr Trp	Val Lys Met Gly His	Ser Leu Val Gly Gly	Ile
	455	460	465
Val Gln Glu Arg	Ile Val Ser Gly Glu	Lys Gln His Leu Ser	Leu
	470	475	480
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	485	490	495
Leu Asp Ala Phe	Asn Tyr Arg Ala Val	Glu Asp Thr Ile Cys	Ser
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<212> DNA
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<220>  
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<210> 118
<211> 22
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<213> Artificial Sequence
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<400> 118

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<210> 119

<211> 46

<212> DNA

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<220>

<223> Synthetic oligonucleotide probe

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<210> 120

<211> 2857

<212> DNA

<213> Homo Sapien

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 caacagaaaa ctctcaaaca aagaaagtca agcagccagt gcgatctcat 150  
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 gaaaacagat tctatttcct gagaaaagt aagatttcag agagaatata 1950  
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 atttaaa 2857

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 <213> Homo Sapien

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 Val Lys Gln Pro Val Arg Ser His Leu Arg Val Lys Arg Gly Trp  
 35 40 45  
 Val Trp Asn Gln Phe Phe Val Pro Glu Glu Met Asn Thr Thr Ser  
 50 55 60  
 His His Ile Gly Gln Leu Arg Ser Asp Leu Asp Asn Gly Asn Asn  
 65 70 75  
 Ser Phe Gln Tyr Lys Leu Leu Gly Ala Gly Ala Gly Ser Thr Phe  
 80 85 90  
 Ile Ile Asp Glu Arg Thr Gly Asp Ile Tyr Ala Ile Gln Lys Leu  
 95 100 105  
 Asp Arg Glu Glu Arg Ser Leu Tyr Ile Leu Arg Ala Gln Val Ile  
 110 115 120  
 Asp Ile Ala Thr Gly Arg Ala Val Glu Pro Glu Ser Glu Phe Val  
 125 130 135  
 Ile Lys Val Ser Asp Ile Asn Asp Asn Glu Pro Lys Phe Leu Asp  
 140 145 150  
 Glu Pro Tyr Glu Ala Ile Val Pro Glu Met Ser Pro Glu Gly Thr  
 155 160 165  
 Leu Val Ile Gln Val Thr Ala Ser Asp Ala Asp Asp Pro Ser Ser

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Tyr Phe Ser Val Glu Pro Thr Thr Gly	Val Ile Arg Ile Ser Ser		
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Lys Met Asp Arg Glu Leu Gln Asp Glu	Tyr Trp Val Ile Ile Gln		
215	220	225	
Ala Lys Asp Met Ile Gly Gln Pro Gly	Ala Leu Ser Gly Thr Thr		
230	235	240	
Ser Val Leu Ile Lys Leu Ser Asp Val	Asn Asp Asn Lys Pro Ile		
245	250	255	
Phe Lys Glu Ser Leu Tyr Arg Leu Thr	Val Ser Glu Ser Ala Pro		
260	265	270	
Thr Gly Thr Ser Ile Gly Thr Ile Met	Ala Tyr Asp Asn Asp Ile		
275	280	285	
Gly Glu Asn Ala Glu Met Asp Tyr Ser	Ile Glu Glu Asp Asp Ser		
290	295	300	
Gln Thr Phe Asp Ile Ile Thr Asn His	Glu Thr Gln Glu Gly Ile		
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Val Ile Leu Lys Lys Lys Val Asp Phe	Glu His Gln Asn His Tyr		
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Gly Ile Arg Ala Lys Val Lys Asn His	His Val Pro Glu Gln Leu		
335	340	345	
Met Lys Tyr His Thr Glu Ala Ser Thr	Thr Phe Ile Lys Ile Gln		
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Val Glu Asp Val Asp Glu Pro Pro Leu	Phe Leu Leu Pro Tyr Tyr		
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Val Phe Glu Val Phe Glu Glu Thr Pro	Gln Gly Ser Phe Val Gly		
380	385	390	
Val Val Ser Ala Thr Asp Pro Asp Asn	Arg Lys Ser Pro Ile Arg		
395	400	405	
Tyr Ser Ile Thr Arg Ser Lys Val Phe	Asn Ile Asn Asp Asn Gly		
410	415	420	
Thr Ile Thr Thr Ser Asn Ser Leu Asp	Arg Glu Ile Ser Ala Trp		
425	430	435	
Tyr Asn Leu Ser Ile Thr Ala Thr Glu	Lys Tyr Asn Ile Glu Gln		
440	445	450	
Ile Ser Ser Ile Pro Leu Tyr Val Gln	Val Leu Asn Ile Asn Asp		
455	460	465	



His	Ala	Pro	Glu	Phe 470	Ser	Gln	Tyr	Tyr	Glu 475	Thr	Tyr	Val	Cys	Glu 480
Asn	Ala	Gly	Ser	Gly 485	Gln	Val	Ile	Gln	Thr 490	Ile	Ser	Ala	Val	Asp 495
Arg	Asp	Glu	Ser	Ile 500	Glu	Glu	His	His	Phe 505	Tyr	Phe	Asn	Leu	Ser 510
Val	Glu	Asp	Thr	Asn 515	Asn	Ser	Ser	Phe	Thr 520	Ile	Ile	Asp	Asn	Gln 525
Asp	Asn	Thr	Ala	Val 530	Ile	Leu	Thr	Asn	Arg 535	Thr	Gly	Phe	Asn	Leu 540
Gln	Glu	Glu	Pro	Val 545	Phe	Tyr	Ile	Ser	Ile 550	Leu	Ile	Ala	Asp	Asn 555
Gly	Ile	Pro	Ser	Leu 560	Thr	Ser	Thr	Asn	Thr 565	Leu	Thr	Ile	His	Val 570
Cys	Asp	Cys	Gly	Asp 575	Ser	Gly	Ser	Thr	Gln 580	Thr	Cys	Gln	Tyr	Gln 585
Glu	Leu	Val	Leu	Ser 590	Met	Gly	Phe	Lys	Thr 595	Glu	Val	Ile	Ile	Ala 600
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Leu	Gly	Leu	Lys	Gln 620	Arg	Arg	Lys	Gln	Ile 625	Leu	Phe	Pro	Glu	Lys 630
Ser	Glu	Asp	Phe	Arg 635	Glu	Asn	Ile	Phe	Gln 640	Tyr	Asp	Asp	Glu	Gly 645
Gly	Gly	Glu	Glu	Asp 650	Thr	Glu	Ala	Phe	Asp 655	Ile	Ala	Glu	Leu	Arg 660
Ser	Ser	Thr	Ile	Met 665	Arg	Glu	Arg	Lys	Thr 670	Arg	Lys	Thr	Thr	Ser 675
Ala	Glu	Ile	Arg	Ser 680	Leu	Tyr	Arg	Gln	Ser 685	Leu	Gln	Val	Gly	Pro 690
Asp	Ser	Ala	Ile	Phe 695	Arg	Lys	Phe	Ile	Leu 700	Glu	Lys	Leu	Glu	Glu 705
Ala	Asn	Thr	Asp	Pro 710	Cys	Ala	Pro	Pro	Phe 715	Asp	Ser	Leu	Gln	Thr 720
Tyr	Ala	Phe	Glu	Gly 725	Thr	Gly	Ser	Leu	Ala 730	Gly	Ser	Leu	Ser	Ser 735
Leu	Glu	Ser	Ala	Val 740	Ser	Asp	Gln	Asp	Glu 745	Ser	Tyr	Asp	Tyr	Leu 750
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 ccctggccac cagctgcctc cttctcttgg ccctcttggg acagggagga 150  
  
 gcagctgcgc ccatcagctc cactgcagg cttgacaagt ccaacttcca 200  
  
 gcagccctat atcaccaacc gcaccttcat gctggctaag gaggctagct 250  
  
 tggctgataa caacacagac gtctgtctca ttggggagaa actgttccac 300

ggagtcagta tgagtgagcg ctgctatctg atgaagcagg tgctgaactt 350  
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 tactttccat tccttttaggg gaaaaaacc ctaaatagct tcatgtttcc 950  
 ataatcagta ctttatattt ataaatgtat ttattattat tataagactg 1000  
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<210> 126  
 <211> 179  
 <212> PRT  
 <213> Homo Sapien

<400> 126  
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 Leu Ala Thr Ser Cys Leu Leu Leu Leu Ala Leu Leu Val Gln Gly  
 20 25 30  
 Gly Ala Ala Ala Pro Ile Ser Ser His Cys Arg Leu Asp Lys Ser  
 35 40 45  
 Asn Phe Gln Gln Pro Tyr Ile Thr Asn Arg Thr Phe Met Leu Ala  
 50 55 60  
 Lys Glu Ala Ser Leu Ala Asp Asn Asn Thr Asp Val Arg Leu Ile  
 65 70 75  
 Gly Glu Lys Leu Phe His Gly Val Ser Met Ser Glu Arg Cys Tyr



aaacttggac tttctcaagg cggtagacac gaaccgagca agcgtcggcc 850  
 aagactctcc tgagcccaga agcttcacag acctgctgct ggatgatggg 900  
 caggacaata acactcagat cgaggaggat acagaccaca attactatat 950  
 atctcgaata tatgggtccat ctgattctgc cagccgggat ttatgggtga 1000  
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 tggagagaaa gaaggcttta ttgtatcaga gcagtgctaa aatttctagg 2200  
 acagaacaac accagtactg gtttacaggt gttaagacta aaattttgcc 2250



103

	485		490		495
Arg Trp Pro Ala Met Lys Phe Arg Arg Gly Ser Gly His Pro Ala					
	500		505		510
Tyr Ala Glu Val Glu Pro Val Gly Glu Lys Glu Gly Phe Ile Val					
	515		520		525
Ser Glu Gln Cys					

<210> 129  
 <211> 4834  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> unsure  
 <222> 3784  
 <223> unknown base

<400> 129  
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 cctcctgcct cccggctgga cagagtgtgg acttccctcg ggcggccctg 150  
 gacaacatga tggtcagaaa aggggacacg gcggtgctta ggtgttattt 200  
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 tgcaggtgca tctaactgtg caagttcctc ctaagatata tgacatctca 450  
 aatgatatga ccgtcaatga aggaaccaac gtcactctta cttgtttggc 500  
 cactgggaaa ccagagcctt ccatttcttg gcgacacatc tccccatcag 550  
 caaaaccatt tgaaaatgga caatatttgg acatttatgg aattacaagg 600  
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 aaattaaatc tggcaccgtg acccccggac gcagtggcct gataagatgt 750  
 gaaggtgcag gtgtgccgcc tccagccttt gaatggtaca aaggagagaa 800  
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 gatccattct cactgttacc aacgtgacac aggagcactt cggcaattat 900



105

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<210> 130

<211> 354

<212> PRT

<213> Homo Sapien

<400> 130

Met	Asp	Met	Met	Leu	Leu	Val	Gln	Gly	Ala	Cys	Cys	Ser	Asn	Gln
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Trp	Leu	Ala	Ala	Val	Leu	Leu	Ser	Leu	Cys	Cys	Leu	Leu	Pro	Ser
				20				25						30
Cys	Leu	Pro	Ala	Gly	Gln	Ser	Val	Asp	Phe	Pro	Trp	Ala	Ala	Val
				35				40						45
Asp	Asn	Met	Met	Val	Arg	Lys	Gly	Asp	Thr	Ala	Val	Leu	Arg	Cys

108

Phe Tyr Leu Lys Asn Ala Ile Leu Gln  
350

<210> 131  
<211> 823  
<212> DNA  
<213> Homo Sapien

<400> 131  
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attatggttaa atcacttggt tttgtttcca cggcttcctg cctgctatag 150  
gcataattac gaggaagcag aactttctcca gaagcaagcg cacatgcgtt 200  
ccaaaataag agcaaattcg ctctaaacac aggaaaagac ctgaagcttt 250  
aattaagggg ttacatccaa cccagagcg cttttgtggg cactgattgc 300  
tccagcttct gcgtcactgc gcgaggggaag agggaagagg atccaggcgt 350  
tagacatgta tagacacaaa aacagctgga gattgggctt aaaataccca 400  
ccaagctcca aagaagagac ccaagtcccc aaaacattga tttcagggct 450  
gccaggaagg aagagcagca gcaggggtggg agagaagctc cagtcagccc 500  
acaagatgcc attgtcccc ggctcctctg tgctgctgct ctccggggcc 550  
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agaccttctc ctcttgcaaa tag 823

<210> 132  
<211> 155  
<212> PRT  
<213> Homo Sapien

<400> 132  
Met Tyr Arg His Lys Asn Ser Trp Arg Leu Gly Leu Lys Tyr Pro  
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Pro Ser Ser Lys Glu Glu Thr Gln Val Pro Lys Thr Leu Ile Ser  
20 25 30  
Gly Leu Pro Gly Arg Lys Ser Ser Ser Arg Val Gly Glu Lys Leu  
35 40 45

Gln Ser Ala His Lys Met Pro Leu Ser Pro Gly Leu Leu Leu Leu  
 50 55 60  
 Leu Leu Ser Gly Ala Thr Ala Thr Ala Ala Leu Pro Leu Glu Gly  
 65 70 75  
 Gly Pro Thr Gly Arg Asp Ser Glu His Met Gln Glu Ala Ala Gly  
 80 85 90  
 Ile Arg Lys Ser Ser Leu Leu Thr Phe Leu Ala Trp Trp Phe Glu  
 95 100 105  
 Trp Thr Ser Gln Ala Ser Ala Gly Pro Leu Ile Gly Glu Glu Ala  
 110 115 120  
 Arg Glu Val Ala Arg Arg Gln Glu Gly Ala Pro Pro Gln Gln Ser  
 125 130 135  
 Ala Arg Arg Asp Arg Met Pro Cys Arg Asn Phe Phe Trp Lys Thr  
 140 145 150  
 Phe Ser Ser Cys Lys  
 155  
 <210> 133  
 <211> 24  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Synthetic oligonucleotide probe  
 <400> 133  
 tcagggctgc caggaaggaa gagc 24  
 <210> 134  
 <211> 28  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Synthetic oligonucleotide probe  
 <400> 134  
 gcaggaggag aaggtcttcc agaagaag 28  
 <210> 135  
 <211> 45  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Synthetic oligonucleotide probe  
 <400> 135  
 agaagttcca gtcagcccac aagatgccat tgtcccccg cctcc 45  
 <210> 136







[illegible]

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<210> 138
<211> 2570
<212> DNA
<213> Homo Sapien
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gccgccgccg ctgctggcgg agatgccccg ccggggcaaaa tcgcggtggg 150
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ttggacctcg ggtgcagatc gacgtgtacg agaagggaa cgtgggtggc 250
cgcttgggca ccattctagt caacaagcag cactatgaga gcggggctgc 300
ctccttccac tcctgagcc tgcacatgca ggacttcgtc aagctgctgg 350
ggctgaaggc ccggcgcgag gtggtgggca ggaagcccat cttcgccggg 400
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gagcacttca tgctggagga gactgactgg tacctgctga acctcttccg 450  
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<210> 139
<211> 494
<212> PRT
<213> Homo Sapien
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<400> 139
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Ala Ala Ala Ala Ala Gly Gly Asp Ala Pro Pro Gly Lys Ile Ala
                20                    25                    30

Val Val Gly Ala Gly Ile Gly Gly Ser Ala Val Ala His Phe Leu
                35                    40                    45

Gln Gln His Phe Gly Pro Arg Val Gln Ile Asp Val Tyr Glu Lys
                50                    55                    60

Gly Thr Val Gly Gly Arg Leu Ala Thr Ile Ser Val Asn Lys Gln
                65                    70                    75

His Tyr Glu Ser Gly Ala Ala Ser Phe His Ser Leu Ser Leu His
                80                    85                    90

Met Gln Asp Phe Val Lys Leu Leu Gly Leu Arg His Arg Arg Glu
                95                    100                    105

Val Val Gly Arg Ser Ala Ile Phe Gly Gly Glu His Phe Met Leu

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Glu Glu Thr Asp Trp Tyr Leu Leu Asn	Leu Phe Arg Leu Trp Trp	
125	130	135
His Tyr Gly Ile Ser Phe Leu Arg Leu	Gln Met Trp Val Glu Glu	
140	145	150
Val Met Glu Lys Phe Met Arg Ile Tyr	Lys Tyr Gln Ala His Gly	
155	160	165
Tyr Ala Phe Ser Gly Val Glu Glu Leu	Leu Tyr Ser Leu Gly Glu	
170	175	180
Ser Thr Phe Val Asn Met Thr Gln His	Ser Val Ala Glu Ser Leu	
185	190	195
Leu Gln Val Gly Val Thr Gln Arg Phe	Ile Asp Asp Val Val Ser	
200	205	210
Ala Val Leu Arg Ala Ser Tyr Gly Gln	Ser Ala Ala Met Pro Ala	
215	220	225
Phe Ala Gly Ala Met Ser Leu Ala Gly	Ala Gln Gly Ser Leu Trp	
230	235	240
Ser Val Glu Gly Gly Asn Lys Leu Val	Cys Ser Gly Leu Leu Lys	
245	250	255
Leu Thr Lys Ala Asn Val Ile His Ala	Thr Val Thr Ser Val Thr	
260	265	270
Leu His Ser Thr Glu Gly Lys Ala Leu	Tyr Gln Val Ala Tyr Glu	
275	280	285
Asn Glu Val Gly Asn Ser Ser Asp Phe	Tyr Asp Ile Val Val Ile	
290	295	300
Ala Thr Pro Leu His Leu Asp Asn Ser	Ser Ser Asn Leu Thr Phe	
305	310	315
Ala Gly Phe His Pro Pro Ile Asp Asp	Val Gln Gly Ser Phe Gln	
320	325	330
Pro Thr Val Val Ser Leu Val His Gly	Tyr Leu Asn Ser Ser Tyr	
335	340	345
Phe Gly Phe Pro Asp Pro Lys Leu Phe	Pro Phe Ala Asn Ile Leu	
350	355	360
Thr Thr Asp Phe Pro Ser Phe Phe Cys	Thr Leu Asp Asn Ile Cys	
365	370	375
Pro Val Asn Ile Ser Ala Ser Phe Arg	Arg Lys Gln Pro Gln Glu	
380	385	390
Ala Ala Val Trp Arg Val Gln Ser Pro	Lys Pro Leu Phe Arg Thr	
395	400	405

Gln	Leu	Lys	Thr	Leu 410	Phe	Arg	Ser	Tyr	Tyr 415	Ser	Val	Gln	Thr	Ala 420
Glu	Trp	Gln	Ala	His 425	Pro	Leu	Tyr	Gly	Ser 430	Arg	Pro	Thr	Leu	Pro 435
Arg	Phe	Ala	Leu	His 440	Asp	Gln	Leu	Phe	Tyr 445	Leu	Asn	Ala	Leu	Glu 450
Trp	Ala	Ala	Ser	Ser 455	Val	Glu	Val	Met	Ala 460	Val	Ala	Ala	Lys	Asn 465
Val	Ala	Leu	Leu	Ala 470	Tyr	Asn	Arg	Trp	Tyr 475	Gln	Asp	Leu	Asp	Lys 480
Ile	Asp	Gln	Lys	Asp 485	Leu	Met	His	Lys	Val 490	Lys	Thr	Glu	Leu	

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<210> 140
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 140
gggacgtgct tctacaagaa cag 23

<210> 141
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 141
caggcttaca atgttatgat cagaca 26

<210> 142
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 142
tattcagagt tttccattgg cagtgccagt t 31

<210> 143
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

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<400> 143
ggccttgtagc acaaccgt 18

<210> 144
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 144
cagactgagg gagatccgag a 21

<210> 145
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 145
gcagattttg aggacagcca cctcca 26

<210> 146
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 146
catcaagcgc ctctacca 18

<210> 147
<211> 21
<212> DNA
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<220>
<223> Synthetic oligonucleotide probe

<400> 147
cacaaactcg aactgcttct g 21

<210> 148
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 148
cagctgcctt tccccaacca 20

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<210> 149
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 149
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<210> 150
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<220>
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<400> 150
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<210> 151
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<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 151
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